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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/043,675	01/11/2002	Perlie E. Voshell	696690.0038	8211
21832	7590	10/21/2004	EXAMINER	
MCCARTER & ENGLISH LLP CITYPLACE I 185 ASYLUM STREET HARTFORD, CT 06103			BURGE, LONDRA C.	
			ART UNIT	PAPER NUMBER
			2178	

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/043,675	Applicant(s) VOSHELL, PERLIE E.	
	Examiner Londra C Burge	Art Unit 2178	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/12/02</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: Original application filed 1/11/2002 and IDS filed 2/14/2002 and 7/12/2002.
2. Claims 1-24 are pending. Claims 1 and 6 are independent claims.

Claim Rejections - 35 USC § 102

3. **The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:**

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1, 5-9, 11, 12, 16 and 21-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Norden-Paul et al. (herein after Norden-Paul) U.S. Patent No. 5,247,611 filed 4/22/1991 (provided by the applicant).**

In regard to independent claim 1, Norden-Paul discloses *a) providing an electronic spreadsheet having a plurality of cells that are arrayed in a defined number of columns and rows (Norden-Paul Abstract); b) providing a database in communication with said electronic spreadsheet (Norden-Paul Col 5 Lines 15-17); c) defining an expansion formula in at least one of said plurality of cells, said expansion formula functioning to control retrieval of data from said database and to automatically vary at least one of the defined number of said columns and rows to accommodate said data retrieval (Norden-Paul Col 6 Lines 65-68).*

In regard to dependent claim 5, Norden-Paul discloses *wherein said data includes at least one dimension member, and wherein said at least one dimension member is identified by at least one parameter set forth in said expansion formula* (Norden-Paul Abstract).

In regard to dependent claim 6, Norden-Paul discloses *wherein said at least one dimension member is a data category* (Norden-Paul Col 2 Lines 18-20 and Lines 42-43).

In regard to dependent claim 7, Norden-Paul discloses *wherein said data category is selected from the group consisting of time periods, departments, account types, account categories, product types, product categories and combinations thereof*. (Norden-Paul Figure 2)

In regard to dependent claim 8, Norden-Paul discloses *automatically updating said electronic spreadsheet to include a new dimension member upon introduction of said new dimension member to said database, provided the definition of said expansion formula calls for retrieval of said new dimension member from said database* (Norden-Paul Col 9 Lines 30-33 and Col 10 Lines 1-3).

In regard to dependent claim 9, Norden-Paul discloses *wherein in automatically varying at least one of the defined number of said columns and rows, said expansion formula does not impair operability or functionality of said electronic spreadsheet external to said data retrieval accommodation*. (Norden-Paul Col 8 Lines 54-68, Col 9 Lines 1-33 and Col 10 Lines 1-32.)

In regard to dependent claim 11, Norden-Paul discloses *wherein said expansion formula utilizes at least one function selected from the group consisting of an EVEXP function, EVNXP function, an EVENE function, an EVLST function, an EVSET function, an EVPXR*

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function, and combinations thereof. (Norden-Paul Col 9 Lines 30-33 and Col 10 Lines 1-3 i.e. adjusting cells).

In regard to dependent claim 12, Norden-Paul discloses *wherein said expansion formula utilizes at least two nested functions.* (Norden-Paul Col 4 Lines 8-32)

In regard to independent claim 16, Norden-Paul discloses *A system for supporting dynamic spreadsheet reporting, comprising a client that includes a processor and associated data storage containing at least one databases said processor adapted to process programmatic instructions associated with an electronic spreadsheet having a plurality of cells that are arrayed in a defined number of columns and rows; said programmatic instructions including at least one expansion formula inserted into in at least one of said plurality of cells, said expansion formula functioning to control retrieval of data from said at least one database and to automatically vary at least one of the defined number of said columns and rows to accommodate said data retrieval.* (Norden-Paul Abstract) (Norden-Paul Col 5 Lines 15-17) (Norden-Paul Col 6 Lines 65-68)

In regard to dependent claim 21, Norden-Paul discloses *wherein said programmatic instructions affect automatic updating of said electronic spreadsheet to include a new dimension member upon introduction of said new dimension member to said database, provided the definition of said expansion formula calls for retrieval of said new dimension member from said database.* (Norden-Paul Col 9 Lines 30-33 and Col 10 Lines 1-3)

In regard to dependent claim 22, Norden-Paul discloses *wherein in automatically varying at least one of the defined number of said columns and rows, processing of said expansion formula by said processor does not impair operability or functionality of said*

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electronic spreadsheet external to said data retrieval accommodation. (Norden-Paul Col 8 Lines 54-68, Col 9 Lines 1-33 and Col 10 Lines 1-32.)

In regard to dependent claim 23, Norden-Paul discloses *wherein in processing said expansion formula, said processor processes at least one function selected from the group consisting of an EVEXP function, EVNXP function, an EVENE function, an EVLST function, an EVSET function, an EVPXR function, and combinations thereof.* (Norden-Paul Col 9 Lines 30-33 and Col 10 Lines 1-3 i.e. adjusting cells).

In regard to dependent claim 24, Norden-Paul discloses *wherein in processing said expansion formula, said processor processes at least two nested functions.* (Norden-Paul Col 4 Lines 8-32)

Claim Rejections - 35 USC § 103

3. **The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:**

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 2-4 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norden-Paul et al. (herein after Norden-Paul) as applied to claim 1 (provided by the applicant), in view of Capson et al. (herein after Capson) U.S. Patent No. 5,701,499 filed 3/25/1992 (provided by the applicant).**

In regard to dependent claim 2, Norden-Paul does not specifically disclose *wherein said electronic spreadsheet is supported by a spreadsheet application that provides formatting*

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and calculation functionalities to said electronic spreadsheet. However, Capson mentions calculations that are used (Capson Col 6 Lines 59-62). It would have been obvious to one of ordinary skill in the art to apply Capson to Norden-Paul, providing Norden-Paul the benefit of performing calculations so different data entered into the spreadsheet can be correctly calculated.

In regard to dependent claim 3, Norden-Paul discloses *wherein said spreadsheet application operatively resides on a computer system selected from the group consisting of a stand-alone client and a networked client.* (Norden-Paul Col 3 Lines 50-52)

In regard to dependent claim 4, Norden-Paul discloses *wherein said spreadsheet application is a collaborative spreadsheet application that operates across a plurality of networked computers.* (Norden-Paul Col 3 Lines 50-52)

In regard to dependent claim 17, Norden-Paul does not specifically disclose *wherein said programmatic instructions provide formatting and calculation functionalities to said electronic spreadsheet.* However, Capson mentions calculations that are used (Capson Col 6 Lines 59-62). It would have been obvious to one of ordinary skill in the art to apply Capson to Norden-Paul, providing Norden-Paul the benefit of performing calculations so different data entered into the spreadsheet can be correctly calculated.

In regard to dependent claim 18, Norden-Paul discloses *wherein said client communicates with a server across a network, and wherein said data storage is associated with said server.* (Norden-Paul Col 3 Lines 50-52 and Col 4 Lines 15-20)

In regard to dependent claim 19, Norden-Paul discloses *wherein said spreadsheet application is a collaborative spreadsheet application that operates across a plurality of networked computers.* (Norden-Paul Col 3 Lines 50-52)

In regard to dependent claim 20, Norden-Paul discloses *wherein said data includes at least one dimension member, and wherein said at least one dimension member is identified by at least one parameter set forth in said expansion formula.* (Norden-Paul Col 8 Lines 1-5)

4. **Claim 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norden-Paul et al. (herein after Norden-Paul) as applied to claim 1 (provided by the applicant), in view of Ammirato et al. (herein after Ammirato) U.S. Patent No. 5,303,146 filed 3/11/1993.**

In regard to dependent claim 10, Norden-Paul does not specifically disclose *further comprising defining a member list in said database, said member list including hierarchical list of members within a given category of said data.* However, Ammirato mentions lists in a tree format such as a hierarchy (Ammirato Col 13 Lines 53-56). It would have been obvious to one of ordinary skill in the art to apply Ammirato to Norden-Paul, providing Norden-Paul the benefit of listing information in a hierarchical format so the user can view the information easily.

5. **Claim 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norden-Paul et al. (herein after Norden-Paul) as applied to claim 1 (provided by the applicant), in view of Ammirato et al. (herein after Ammirato) and in further view if Smokoff et al. (herein after Smokoff).**

In regard to dependent claim 13, Norden-Paul does not specifically disclose *d) recalculating said electronic spreadsheet based on data retrieval from said database controlled by said expansion formula, and e) building a cache in a memory for said expansion formula.* However, Ammirato mentions that spreadsheets can recalculate (Ammirato Col 2 Lines 15-25).

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It would have been obvious to one of ordinary skill in the art to apply Ammirato to Norden-Paul, providing Norden-Paul the benefit of recalculating data in a spreadsheet to ensure data in the spreadsheet was updated.

Smokoff mentions cache in a memory (Smokoff Col 8 Lines 4-10). It would have been obvious to one of ordinary skill in the art to apply Smokoff to Norden-Paul, providing Norden-Paul the benefit of caching data, which can be used for future use.

In regard to dependent claim 14, Norden-Paul discloses *f) expanding said electronic spreadsheet by querying said database for a list of members as defined in expansion parameters included in said expansion formula, g) adjusting the number of cells in a key range and a data range associated with said expansion formula as necessary to accommodate said list of members, h) populating said key range with members from said list of members, and i) copying formulas from at least one of said plurality of cells to an appropriate newly inserted cell to fill an entire data range.* (Norden-Paul Col 6 Lines 65-68 and Col 7 Lines 1-17)

In regard to dependent claim 15, Norden-Paul does not specifically disclose *k) recalculating said electronic spreadsheet in said expanded electronic spreadsheet.* However, Ammirato mentions that spreadsheets can recalculate (Ammirato Col 2 Lines 15-25). It would have been obvious to one of ordinary skill in the art to apply Ammirato to Norden-Paul, providing Norden-Paul the benefit of recalculating data in a spreadsheet to ensure data in the spreadsheet was updated.

Smokoff mentions cache, which can be deleted in said memory; (Smokoff Col 8 Lines 4-10). It would have been obvious to one of ordinary skill in the art to apply Smokoff to Norden-Paul, providing Norden-Paul the benefit of caching data, which can be used for future use.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ditter, Jr.	U.S. Patent No. 5,321,803	issued	6/14/1994
Bentson et al.	U.S. Patent No. 5,444,842	issued	8/22/1995
Ogaki et al.	U.S. Patent No. 5,893,124	issued	4/6/1999

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Londra C Burge whose telephone number is (571) 272-4122. The examiner can normally be reached on 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, DC 20231

Or faxed to:

(703) 746-7239 (for formal communications intended for entry)

Or:

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(703) 746-7240 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Or:

(703) 746-7238 (for after-final communications)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Fourth Floor (Receptionist).

Londra C. Burge
10/7/04



**STEPHEN S. HONG
PRIMARY EXAMINER**